

Early Effects of the San Francisco Paid Sick Leave Policy

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The Bureau of Labor Statistics estimates that in 2009 only 61% of workers nationwide in private industry had access to paid sick leave, with part-time (26%) and low-wage (33%) workers less likely to report access.¹ There are health benefits to be gained by the adoption of a paid sick leave policy: reducing spread of influenza and infectious diseases in the workplace and childcare facilities^{2–4} and allowing workers to visit physicians, which may reduce unnecessary hospitalization and subsequent sickness absence.⁵ Previous research shows that the availability of paid sick leave is associated with increases in workers using sick leave, reductions in presenteeism (workers being on the job while sick), decreases in job loss because of sickness, and increases in the ability to care for sick children.^{6–20} Workers benefit from the insurance against loss of income or employment, and there may be economic benefits for employers, such as reducing job turnover and limiting productivity decreases because of presenteeism.²¹ However, mandated benefits may have detrimental effects on wages, employment, and business profitability.^{22,23}

In recent years, San Francisco, California, has been at the forefront of worker protection, implementing a citywide minimum wage requirement in 2004,²⁴ mandatory paid sick leave in 2007,²⁵ and an employer health benefit mandate in 2008.²⁶ On February 5, 2007, San Francisco became the first jurisdiction to enact a policy²⁵; recently, Connecticut²⁷; New York City²⁸; Portland, Oregon²⁹; Seattle, Washington³⁰; and Washington, DC³¹ passed laws requiring paid sick leave, and many other jurisdictions are considering similar policies.³² The San Francisco Paid Sick Leave Ordinance (PSLO) requires employers to provide paid sick leave to all employees (including part time and temporary). Paid sick leave must accrue at a rate of 1 hour for every 30 hours worked after the first 90 calendar days of employment.³³ Enforcement is complaint driven, and the Office of Labor Standards Enforcement receives an average of 4

Objectives. We examined employers' responses to San Francisco, California's 2007 Paid Sick Leave Ordinance.

Methods. We used the 2009 Bay Area Employer Health Benefits Survey to describe sick leave policy changes and the policy's effects on firm (n = 699) operations.

Results. The proportion of firms offering paid sick leave in San Francisco grew from 73% in 2006 to 91% in 2009, with large firms (99%) more likely to offer sick leave than are small firms (86%) in 2009. Most firms (57%) did not make any changes to their sick leave policy, although 17% made a major change to sick leave policy to comply with the law. Firms beginning to offer sick leave reported reductions in other benefits (39%), worse profitability (32%), and increases in prices (18%) but better employee morale (17%) and high support for the policy (71%). Many employers (58%) reported some difficulty understanding legal requirements, complying administratively, or reassigning work responsibilities.

Conclusions. There was a substantial increase in paid sick leave coverage after the mandate. Employers reported some difficulties in complying with the law but supported the policy overall. (*Am J Public Health.* 2014;104:2453–2460. doi:10.2105/AJPH.2013.301575)

complaints a month.³⁴ A small study (n = 26) 1 year after the PSLO went into effect found that San Francisco employers reported little benefit from reduced absenteeism, lower turnover, or improved morale and little impact on profitability.³⁵ There is growing momentum for paid sick leave requirements across the United States³² but little evidence to inform us of their effects on employers, employees, or customers over the longer term.³⁶

We examined the 2009 Bay Area Employer Health Benefits Survey data to report changes employers made to comply with the sick leave mandate and the types of firms that made the greatest changes to sick leave policies. We analyzed the types of policies firms offer, employer-reported changes in other benefits, employee morale, prices, profitability, presenteeism, and absenteeism associated with changes in sick leave policy. We investigated employer sentiment, including support for the mandate and difficulties with implementation. We sought to inform policymakers about the impact of the PSLO on employers in San Francisco and allow policymakers in other cities or states considering similar legislation to assess the likely effects of such a policy.

METHODS

The data source for our analyses was the 2009 Bay Area Employer Health Benefits Survey, which was conducted through telephone interviews with employee benefit managers. The survey collected information regarding 2009 sick leave policies and changes made in response to the 2007 ordinance to describe pre-2007 offerings and postmandate changes. We conducted all analyses at the establishment level.

The survey included interviews of 727 firms in San Francisco in 2009, with a response rate of 20%. We calculated the response rate using the Council of American Survey Research Organizations' method. The sampling frame consisted of all for-profit San Francisco firms with more than 20 employees and a random sample of firms with 5 to 19 employees. We used data from the City of San Francisco Office of Labor Standards Enforcement and a larger sample that completed 1 question on health insurance offered to test for nonresponse bias in the sample. Although the low response rate is a concern, nonresponders were similar to the completed sample along observable characteristics,^{37,38} and all results are weighted for nonresponse. We created employer weights on

the basis of firm size at site, profit status, location, and standard industrial classification industry group to make the sample representative of the population of firms in San Francisco.

Surveyed firms were asked details about their leave policies, changes to leave policies, other benefits, and business operations in response to the PSLO and difficulties understanding and complying with the PSLO. In addition, the survey collected information on firm industry, size, profit status, and employee characteristics.

An additional sample of firms with 20 or more employees in counties surrounding San Francisco were also interviewed ($n = 282$). These firms were only asked a subset of questions, as they were not subject to the PSLO. We have reported means from these counties (Alameda, Contra Costa, Marin, and Santa Clara) to compare sick leave offer status.

We divided the sample into 3 groups by employer size—small (< 20 employees), medium (20–99 employees), and large (≥ 100 employees)—and measured reported changes in sick leave offer status and type of leave offered in 2009 by employer size. Next, we grouped firms by changes they made in response to the PSLO: implemented a new paid sick leave policy because it did not have a policy before, made a major change in sick leave policy (increased accrual rates or expanded eligibility), or made no changes to sick leave policy. We further divided firms that did not make any changes into those that do and do not offer sick leave. We excluded firms from analysis of changes in sick leave if they did not know their sick leave offer status before the PSLO or they refused to answer ($n = 28$).

We described the characteristics of firms in each of these groups by creating indicators for a high proportion of part-time, female, Black, Hispanic, and new (hired in the past year) employees. We defined firms as having a high proportion of a worker type if they exceed the 75th percentile of San Francisco firms. We created indicators for whether a firm employs workers at less than \$10.00 an hour (the minimum wage in San Francisco in 2009 was \$9.79 an hour), whether the firm employs temporary or unionized workers, and whether the firm is nonprofit or part of a multiestablishment chain. We analyzed differences

between firms with these characteristics and firms without these characteristics using the unpaired 2-sample t test.

We have described how complying with the PSLO affected employees, employers, and customers, according to employers' reports, stratifying by whether the firm instituted a new policy, made a major change to an existing policy, or previously offered sick leave and did not make any changes. We used a 2-sample comparison of means to statistically test differences in responses of the group with a new or substantially changed policy and the group that already offered sick leave and did not make any changes to comply with the PSLO. Our *a priori* hypothesis was that the largest reported changes would be in the group that began to offer sick leave after the ordinance was implemented. Finally, we explored the association of firm size with effects on employees, employers, and customers. This characteristic was a focus under the hypothesis that small firms might be more likely to reduce other forms of compensation or have more difficulty implementing new leave policies.

RESULTS

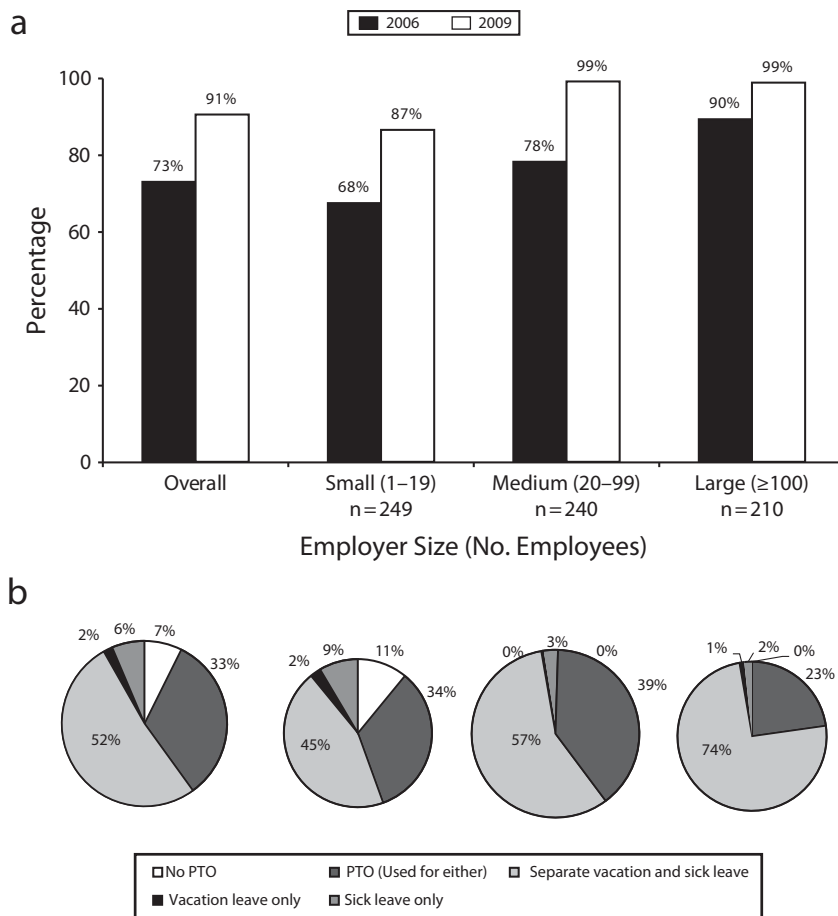
In response to the PSLO in San Francisco, the proportion of firms with a sick leave policy increased from 73% to 91%, indicating that 18% of firms instituted a new sick leave policy between 2006 and 2009 (Figure 1a). These gains were concentrated in firms with fewer than 100 employees, where the proportion of firms offering sick leave rose by 20% in contrast to large employers whose coverage increased by only 9%. In 2009, 99% of firms with more than 20 employees offered paid sick leave in San Francisco. The corresponding rate for firms with more than 20 employees in counties surrounding San Francisco was 84% in 2009. In San Francisco, 52% of firms complied with the mandate by offering separate vacation and sick leave, 33% offered paid time off that could be used for either vacation or sick leave, and 6% offered sick leave only (Figure 1b). These proportions differed by firm size: larger firms were more likely to offer separate vacation and sick leave. Among the 9% of firms that did not offer sick leave, 1 in 5 did offer vacation time. The few remaining firms in San Francisco that did not offer sick

leave in 2009 were likely not in compliance with the law.

Furthermore, San Francisco firms offering paid sick leave make the benefit eligible to a larger share of employees than did firms outside San Francisco. Within San Francisco firms offering paid sick leave, 76% of employees in small firms (< 20 employees), 91% of employees in medium firms (20–99 employees), and 86% of workers in large firms (≥ 100 employees) were eligible for the benefit. In firms that offered sick leave benefits outside San Francisco, 73% of employees in medium firms and 70% of employees in large firms were eligible for the benefit (small firms were not surveyed; medium and large firm comparison: $P < .001$).

In addition to the group that initiated a new sick leave policy, 17% of firms made a major change to their sick leave policy to comply with the PSLO (Table 1). These changes included increasing accrual rates or expanding eligibility to employees who did not previously qualify for sick leave (including shortening a waiting period to accrue sick leave or expanding to additional employee classes). More than half of firms (57%) did not make any major changes to their existing paid sick leave policy in response to the mandate.

Firms in the accommodation and food services sector, a low-wage sector in San Francisco,³⁹ were significantly more likely to have added a new sick leave policy in response to the PSLO than was the average San Francisco firm (27% of accommodation and food services vs 17% in other sectors [$P = .03$] and 35% of restaurants [a subset of the accommodation and food services sector] vs 16% in other sectors [$P = .001$]). Firms that employed a high proportion of part-time workers, new workers (hired in the past year), and Hispanic workers were less likely to offer sick leave both before and after the law. However, they were also significantly more likely to have implemented a new policy to comply with the mandate. Nonprofits, firms that were part of a multiestablishment chain, and large employers (≥ 100 employees) were significantly less likely to implement a new policy after the PSLO but were much more likely to have offered sick leave in 2006. Firms with unionized workers had a baseline sick leave offer rate similar to that of nonunionized firms. However, by 2009



Note. PTO = paid time off. Offering sick leave includes separate vacation and sick leave, sick leave only, and paid time off that can be used for vacation or sick leave. We used employer weights on the basis of firm size at site, profit status, location, and industry to make the sample representative of the population of San Francisco firms.

FIGURE 1—San Francisco sick leave offering by (a) firm size in 2006 and 2009 and (b) type of leave offered in 2009: Bay Area Employer Health Benefits Survey, California.

nonunionized firms were significantly more likely to offer sick leave (92% vs 80% in unionized firms; $P = .011$). Firms with a high proportion of temporary and part-time workers were significantly more likely to have made a major change to sick leave policy, perhaps to extend eligibility for benefits to these workers.

Effects on Employers, Employees, and Customers

Instituting a new sick leave policy in response to the PSLO had an impact on employees, the employer, and customers of these firms (Table 2). In bivariate analyses, firms that offered a new policy were significantly more likely to report reductions in compensation

than were those that did not change their sick leave policy (39% vs 10%; $P < .001$). These changes included reducing employee vacation time (30% vs 7%; $P = .001$) or decreasing pay raises or bonuses (14% vs 5%; $P = .07$) relative to firms that did not make any major changes, although the difference in those decreasing pay raises or bonuses was only statistically significant at the 10% level and not at the conventional 5% level. These firms were also more likely to report improved employee morale (17% vs 4%; $P = .026$). Firms that made a major change to their policy were more likely to report a decrease in presenteeism than were firms that did not make major changes (8% vs 3%) although the difference was not statistically significant ($P = .109$).

Support for the PSLO was high among San Francisco employers—more than 70% in each group (Table 2)—and there were no significant differences according to whether they made changes to comply. However, firms reported some adverse consequences of offering additional benefits on business operations. Firms with a new policy were more likely to report worse profitability than were firms that made no changes (32% vs 14%; $P = .018$). Firms that instituted a new policy or made a major change in sick leave were more likely to report difficulty administratively complying with the mandate, but firms that created a new policy were actually less likely to report difficulty understanding the legal requirements. Both firms with a new policy and those that made major changes were more likely to report a change in the predictability of employee absenteeism. The data suggest both better predictability (employees are giving more advance notice to managers) and worse predictability (increases in instances of employees taking sick leave). Firms with a new policy were also somewhat more likely to report negative effects on consumers than were firms that did not make changes, including raising prices (18% vs 6%; $P = .016$) and worse customer service (9% vs 2%; difference not statistically significant at the conventional 5% level; $P = .085$).

Interactions Between Policy Changes and Firm Size

Although small firms are often exempted from benefit mandate policies (e.g., the San Francisco Health Care Security Ordinance exempts firms with < 20 workers), the PSLO applies to all firms in San Francisco. Changes to offer policies in this group are displayed in Figure 1.

Small firms were somewhat less likely to support the PSLO than were large firms (70% vs 80%; difference not statistically significant at the conventional 5% level; $P = .098$; Table 3). Small firms were also more likely to report worse profitability ($P = .034$), more difficulty delaying or reassigning work responsibilities ($P = .003$), and more negative consumer effects (raising prices or worse customer service; $P = .007$) than were large firms.

TABLE 1—Employer Characteristics by Sick Leave Status: Bay Area Employer Health Benefits Survey, California, 2009

Characteristics	Proportion of Firms, %	2006 Offer Rate, %	2009 Offer Rate, %	Sick Leave Changes			
				New Policy, %	Major Policy Change, %	Existing Policy, Minor or No Changes, %	No Policy, Minor or No Changes, %
All firms (n = 699)	100.0	73.0	91.0	17.7	16.7	56.6	9.0
Firm size, no. employees							
0–19	66.8	67.6**	86.7**	19.1	12.1**	55.7	13.1**
20–99	16.0	78.2	99.3**	21.2	23.3**	55.1	0.5**
≥ 100	17.2	89.5**	98.9**	9.2**	28.6**	61.2	1.1**
Firm sector							
Accommodation and food services sector	10.9	47.4**	74.8**	26.8**	11.1	36.5**	25.6**
Restaurant	7.6	34.7**	70.6**	35.2**	4.5**	30.5**	29.7**
Retail sector	7.1	52.3**	78.1**	25.4	27.9**	24.4**	22.3**
Other sectors	82.0	78.0**	93.6**	15.6**	16.9	61.4**	6.1**
Chain of establishments, > 1 establishment, firm							
Yes	32.9	88.0**	98.6**	10.2**	26.5**	61.9**	1.4**
No	67.1	65.9	87.1	21.4	12.0	54.0	12.7
Nonprofit firm							
Yes	14.3	86.4**	90.2	5.7**	21.9	64.9*	7.6**
No	85.7	70.8	90.9	19.8	15.9	55.2	9.2
Employs workers at < \$10/hr							
Yes	10.1	63.2**	83.9**	25.9	9.6	44.5**	20.0**
No	89.9	74.8	91.5	16.6	16.1	59.0	8.2
Employs temporary workers							
Yes	11.8	80.2	91.7	13.3	29.1**	51.1	6.5
No	88.2	71.9	90.6	18.4	15.2	57.0	9.4
Employs unionized workers							
Yes	5.8	70.5	79.7**	9.9	21.8	48.7	19.6**
No	94.2	73.2	91.5	18.2	16.4	57.0	8.3
Employs high proportion of part-time workers, ≥ 33							
Yes	25.9	53.5**	78.6**	20.5**	19.6**	43.6**	16.4**
No	74.1	79.8	95.0	14.9	19.2	60.7	5.1
Employs high proportion female workers, ≥ 67							
Yes	30.5	70.3	89.6	20.2	11.9*	58.4	9.5*
No	69.5	74.2	91.1	16.4	19.3	55.2	9.0
Employs high proportion Black workers, ≥ 5							
Yes	27.4	72.1	89.1	16.8	18.2	54.0	11.0**
No	72.6	71.3	90.1	18.8	14.5	57.2	9.5
Employs high proportion Hispanic workers, ≥ 20							
Yes	30.9	57.5**	82.8**	26.2*	14.2	43.4**	16.2**
No	69.1	77.9	92.9	14.7	16.1	62.1	7.1
Employs high proportion workers hired in past year, ≥ 25							
Yes	20.8	59.7**	85.0**	25.7**	14.8	44.9**	14.6**
No	79.2	76.3	92.2	15.7	17.3	59.3	7.7

Note. We used employer weights on the basis of firm size at site, profit status, location, and industry to make the sample representative of the population of San Francisco firms. Major sick leave policy changes include changing eligibility or accrual rates. The high proportion categories are defined at the 75th percentile.

* $P = .01$; ** $P = .005$.

TABLE 2—Effects of a Sick Leave Mandate on San Francisco Employees, Employers, and Customers: Bay Area Employer Health Benefits Survey, California, 2009

Variable	All Firms (n = 699), %	New Policy (n = 132), %	Major Policy Change (n = 194), %	Minor or No Changes (n = 339), %
Employees				
Reduced compensation	16.3	38.6**	17.1**	10.0
Reduced vacation time	12.0	30.1**	13.7**	7.2
Decreased pay raises or bonuses	6.8	13.8**	6.5**	4.5
Better employee morale	7.1	16.5**	7.2**	4.2
Decreased presenteeism	4.0	7.9**	4.9**	2.6
Employers				
Support the Paid Sick Leave Ordinance	71.8	70.8**	76.0**	71.8
Better profitability	0.7	0.0**	0.3**	1.1
Worse profitability	18.5	32.4**	20.5**	14.2
Any difficulty with the Paid Sick Leave Ordinance	57.5	65.0**	68.2**	54.4
Difficulty understanding legal requirements	38.0	25.4**	46.3**	40.1
Difficulty administratively complying	37.3	48.8**	45.0**	29.5
Difficulty delaying or reassigning work responsibilities	41.6	49.8**	48.5**	38.3
Hire outside replacement when employees take sick leave	8.4	5.7**	12.4**	8.1
Change in predictability of employee absenteeism	21.0	35.3**	27.7**	15.0
Better predictability of absenteeism	5.7	13.2**	4.2**	3.8
Worse predictability of absenteeism (greater leave taking)	15.4	22.1**	23.5**	11.1
Customers				
Any negative consumer effect	12.3	23.9**	13.9**	8.3
Raise prices	7.9	18.2**	7.6**	5.5
Worse customer service	4.0	9.4**	6.0**	1.6
Better customer service	2.6	3.0**	1.8**	1.7

Note. We used employer weights on the basis of firm size at site, profit status, location, and industry to make the sample representative of the population of San Francisco firms. Major sick leave policy changes include changing eligibility or accrual rates. We excluded firms that do not have a sick leave policy (n = 34). Reduced vacation time includes converting vacation to sick leave. Omitted category for employee morale, profitability, absenteeism, and customer service is "about the same." Difficulty includes "very" and "somewhat difficult" responses. Support includes "very supportive" and "somewhat supportive."
 **P = .005.

DISCUSSION

We have provided evidence of employer-reported responses to and difficulties with implementing a paid sick leave ordinance. The San Francisco PSLO increased the offer rate in firms that did not offer sick leave in 2006: 18% of all San Francisco firms implemented a new policy in the first 2 years after the PSLO (66% of those that previously did not offer a policy). Most firms (57%) did not make any changes to comply with the law. A small proportion (9%) did not offer paid sick time in 2009 and were likely not in compliance with the law. The remainder (17%) made minor changes such as increased accrual rates or

expanded eligibility to comply with the PSLO. These findings document that a paid sick leave mandate can increase workers' access to paid, job-protected illness leave.

Our findings are consistent with the expectation that a greater proportion of firms with part-time or low-wage workers would have to implement a new sick leave policy. Smaller firms were also less likely to offer sick leave at baseline (and after the mandate went into effect). The group that implemented a new sick leave policy in response to the PSLO reported stronger effects on business outcomes than did firms that did not make any changes. Thirty-nine percent of these firms reported reducing some form of compensation, 49% reported

having difficulty complying, and 32% reported worse profitability. In addition, firms with new policies were more likely to report adverse effects for consumers, including raising prices and worse customer service. These proportions were all significantly higher than those reported in the group making minor or no changes to comply. Nevertheless, support for the policy was consistently high (> 70%) across all firms, including those that implemented a new policy. Additionally, the group implementing a new policy reported increased employee morale.

Although 58% reported some difficulties (understanding, administering, or scheduling) during the first 2 years of implementation, most businesses did not report worse overall outcomes. Although only 19% of firms reported any reduction in profits, the proportion of firms was larger (32%) among those that had to implement a new sick leave policy. This implies that even in this high-impact group, the majority of firms did not report lower profits because of the mandate. Moreover, this occurred during the recent economic downturn, when profits were generally falling. This might have led to an overreporting of profit reduction attributed to the policy. For example, 14% of those that did not make any changes to sick leave policy also reported worse profitability.

Why might the adverse effects of the mandate be small? First, some firms modified the composition of compensation: 16% reported reducing some other benefits. The proportion reducing vacation time or pay raises and bonuses was (as expected) higher for firms implementing a new policy (39%). This shows that firms usually have the flexibility to adjust compensation policies to meet the requirement without adding additional cost to their bottom line, confirming previous findings.³⁵ Second, some firms passed on any added costs to customers (8% of all firms and 18% of those implementing a new policy). This is consistent with evidence from employer mandates in San Francisco and elsewhere.^{39–41} Third, there may be beneficial effects on productivity. The increase in employee morale (especially among those newly implementing a policy) is consistent with that perspective. Finally, the fact that San Francisco firms overwhelmingly support the ordinance—72% of

TABLE 3—Effects of a Sick Leave Mandate on San Francisco Employees, Employers, and Customers by Firm Size: Bay Area Employer Health Benefits Survey, California, 2009

Characteristic	All Firms (n = 699), %	Small Firms (n = 249), %	Medium Firms (n = 240), %	Large Firms (n = 210), %
Employees				
Reduced compensation	16.3	17.6	16.9	14.1
Reduced vacation time	12.0	13.5	13.9	9.3
Decreased pay raises or bonuses	6.8	7.4	6.5	4.5
Better employee morale	7.1	7.6	6.8	7.8
Fewer sick employees at work	4.0	2.2	7.4	7.5
Employers				
Support the Paid Sick Leave Ordinance	71.8	68.9*	76.9	80.1
Better profitability	0.7	0.7	0.8	0.4
Worse profitability	18.5	21.1**	23.5**	9.0
Any difficulty with the Paid Sick Leave Ordinance	57.5	62.1	58.0	51.1
Difficulty understanding legal requirements	38.0	40.7	33.2	35.1
Difficulty administratively complying	37.3	37.4	35.1	37.5
Difficulty delaying or reassigning work responsibilities	41.6	47.7**	43.5**	26.9
Hire outside replacement when employees take sick leave	8.4	-0.9	6.2	9.7
Change in predictability of employee absenteeism	21.0	21.7	25.5	19.7
Better predictability of absenteeism	5.7	6.2	7.6	3.4
Worse predictability of absenteeism (greater leave taking)	15.4	15.4	17.9	16.3
Customers				
Any negative consumer effect	12.3	14.0**	17.4**	4.8
Raise prices	7.9	8.2*	13.5**	3.9
Worse customer service	4.0	5.6**	3.0*	0.9
Better customer service	2.6	1.3	3.5	3.1

Note. We used employer weights on the basis of firm size at site, profit status, location, and standard industrial classification industry group to make the sample representative of the population of San Francisco firms. Small firms have fewer than 20 employees, medium firms 20–99 employees, large firms employ at least 100 workers. Reduced vacation time includes converting vacation to sick leave. Omitted category for employee morale, profitability, and customer service is “about the same.” Difficulty includes “very” and “somewhat difficult” responses. Support includes “very supportive” and “somewhat supportive.” We excluded firms that do not offer a sick leave policy.

* $P = .01$; ** $P = .005$.

businesses overall and 71% of businesses implementing a new policy—substantiates the idea that any adverse effects on businesses were small.

San Francisco’s PSLO guarantees accrual and job-protected use of paid sick days for workers’ and their families’ health needs. Similar policies have now been enacted in many jurisdictions, and Congress and policymakers in 20 states and cities are currently evaluating paid sick days policies.⁴² The movement to ensure minimal access to paid sick leave has been likened to the campaign to enact the minimum wage: an effort to establish a floor below which no employer or worker may fall. When paid sick leave policies are targeted at

vulnerable workers, such as mothers earning low wages, and workers who have a lot of face-to-face contact with the public, such as restaurant employees, these campaigns present a compelling image.^{43,44} Congressional proposals to create emergency paid sick leave policies to reduce the spread of the H1N1 virus in fall 2009 cited the potential importance of paid sick leave in protecting public health, and public opinion polling shows very high levels of support for paid sick leave policies.^{45,46}

Although a majority of San Francisco firms (73%) offered some kind of sick leave before adoption of the ordinance, workers gained a significant employment right in having access to paid sick leave established as a legal

requirement, with protections against punitive responses from employers for use of that leave. This policy institutionalization can indemnify workers against cuts in voluntary benefit provisions, such as those occurring in an economic downturn. In some cases the policy can also lead to reductions in other forms of compensation. Survey results show that in 2009 among firms with 20 or more employees, 16% in the counties surrounding San Francisco lacked paid sick days, compared with only 1% in San Francisco. Many firms that already offered leave made changes that are meaningful for workers, such as increasing sick leave accrual rates or expanding eligibility to access the benefit. Overall, the net benefit of the sick leave mandate depends on the value of the sick leave to workers, their families, and the general public weighed against the possible reduction in other employee benefits and added costs to consumers and employers.

The strength of this research is a new data source of employer reactions to and opinions concerning a recently mandated sick leave policy. Besides the usual concerns regarding nonrandom response and recall bias, limitations of the study arise from the city-specific nature of the policy and the generalizability of policies enacted in San Francisco, a high-income city. San Francisco may be somewhat unique in having had relatively high (paid or unpaid) sick leave at baseline. We found that 73% of San Francisco firms offered paid or unpaid sick leave in 2006, whereas an analysis of the 2006 National Compensation Survey reported that only 59% of all US firms provided paid sick leave.⁴⁷ If this is the case, the level of impact of a paid sick leave mandate on employers in the United States overall might be different than that reported here. However, the significant increase in sick leave offerings among employers in the hospitality industry and the strong support for the PSLO they voiced may indicate that sick leave policies could help low-wage workers elsewhere. Additionally, our analysis was derived from employers’ reports; the impact on employees and customers might be better evaluated using information from employees or customers themselves.

We have offered an initial glimpse of some likely impacts of paid sick leave mandates on the configuration of employers’ paid leave

programs. Because this is an area of active policy development, research is critically needed on many other aspects of paid sick leave policies. There is no comprehensive analysis of the impact of paid sick leave on health outcomes and health care expenditures for workers and their families, for instance. Minimum paid sick leave standards may have the potential to reduce the spread of communicable disease²⁻⁴; this role warrants more attention from public health experts. In addition, the impact on employer outcomes such as implementation costs, changes in employee retention and productivity, and business location decisions are important outcomes for future empirical analysis. ■

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This article was accepted July 19, 2013.

Contributors

C. H. Colla completed the analyses and led the writing and revision. W. H. Dow edited the article and supervised the study. A. Dube helped with interpretation and presentation of findings. V. Lovell edited the article. All authors worked on the survey.

Acknowledgments

We acknowledge funding support from the Robert Wood Johnson Foundation (grant 64694), the California Program on Access to Care (grants FNN01A, HNN01A), the Public Welfare Foundation (grant 07-275), the Ford Foundation (grant 1050-0939-1), and the Annie E. Casey Foundation (grant 98.8174).

Note. The findings are those of the authors and not necessarily those of the funding agencies.

Human Participant Protection

The University of California, Berkeley institutional review board approved this study.

References

- US Bureau of Labor Statistics. Paid sick leave in the United States. Available at: http://www.bls.gov/opub/perspectives/program_perspectives_vol2_issue2.pdf. Accessed March 1, 2010.
- Bhatia R, Farhang L, Heller J, et al. *A Health Impact Assessment of the California Healthy Families, Healthy Workplaces Act of 2008*. Oakland, CA: Human Impact Partners and San Francisco Department of Public Health; 2008.
- Li J, Birkhead GS, Strogatz DS, Coles FB. Impact of institution size, staffing patterns, and infection control practices on communicable disease outbreaks in New York State nursing homes. *Am J Epidemiol*. 1996;143(10):1042-1049.
- Potter J, Stott DJ, Roberts MA, et al. Influenza vaccination of health care workers in long-term-care hospitals reduces the mortality of elderly patients. *J Infect Dis*. 1997;175(1):1-6.
- Davis K, Collins S, Doty M, Ho A, Holmgren A. *Health and Productivity Among US Workers*. Issue Brief. New York, NY: Commonwealth Fund; 2005. Publication 856.
- Winkler D. The effects of sick-leave policy on teacher absenteeism. *Ind Labor Relat Rev*. 1980;33(2):232-240.
- Waldfogel J. The impact of the Family and Medical Leave Act. *J Policy Anal Manage*. 1999;18(2):281-302.
- Aronsson G, Gustafsson K, Dallner M. Sick but yet at work. An empirical study of sickness presenteeism. *J Epidemiol Community Health*. 2000;54(7):502-509.
- Clemans-Cope L, Perry CD, Kenney GM, Pelletier JE, Pantell MS. Access to and use of paid sick leave among low-income families with children. *Pediatrics*. 2008;122(2):e480-e486.
- Denerley RA. Some effects of paid sick leave on sickness absence. *Br J Ind Med*. 1952;9(4):275-281.
- Earle A, Ayanian J, Heymann J. Work resumption after newly diagnosed coronary heart disease: findings on the importance of paid leave. *J Womens Health (Larchmt)*. 2006;15(4):430-441.
- Earle A, Heymann S. What causes job loss among former welfare recipients: the role of family health problems. *J Am Med Womens Assoc*. 2002;57(1):5-10.
- Heymann SJ, Earle A. Parental availability for the care of sick children. *Pediatrics*. 1996;98(2 pt 1):226-230.
- Heymann SJ, Earle A. The impact of welfare reform on parents' ability to care for their children's health. *Am J Public Health*. 1999;89(4):502-505.
- Goetzel RZ, Long SR, Ozminkowski RJ, Hawkins K, Wang S, Lynch W. Health, absence, disability, and presenteeism cost estimates of certain physical and mental health conditions affecting US employers. *J Occup Environ Med*. 2004;46(4):398-412.
- Gleason R, Kneipp S. Employment related constraints: determinants of primary health care access? *Policy Polit Nurs Pract*. 2004;5(2):73-83.
- Grinyer A, Singleton V. Sickness absence as risk-taking behavior: a study of organizational culture factors in the public sector. *Health Risk Soc*. 2000;2(1):7-21.
- Heymann SJ, Toomey S, Furstenberg F. Working parents: what factors are involved in their ability to take time off from work when their children are sick? *Arch Pediatr Adolesc Med*. 1999;153(8):870-874.
- Kivimäki M, Head J, Ferrie JE, et al. Working while ill as a risk factor for serious coronary events: the Whitehall II study. *Am J Public Health*. 2005;95(1):98-102.
- Kneipp S. The relationships among employment, paid sick leave, and difficulty obtaining health care of single mothers with young children. *Policy Polit Nurs Pract*. 2002;3(1):20-30.
- Lovell V. *Valuing Good Health in San Francisco: The Costs and Benefits of a Proposed Paid Sick Days Policy*. Washington, DC: Institute for Women's Policy Research; 2006. Report B252.
- Ruhm C. The economic consequences of parental leave mandates: lessons from Europe. *Q J Econ*. 1998;113(1):285-317.
- Summers LH. Some simple economics of mandated benefits. *Am Econ Rev*. 1989;79(2):177-183.
- City of San Francisco. San Francisco minimum wage ordinance. 2004. Available at: [http://www.amlegal.com/nxt/gateway.dll/California/administrative/chapter12rminimumwage?fn=templates\\$fn=default.htm\\$3.0\\$vid=amlegal:sanfrancisco_ca](http://www.amlegal.com/nxt/gateway.dll/California/administrative/chapter12rminimumwage?fn=templates$fn=default.htm$3.0$vid=amlegal:sanfrancisco_ca). Accessed April 10, 2013.
- City of San Francisco. San Francisco paid sick leave ordinance. 2007. Available at: [http://www.amlegal.com/nxt/gateway.dll/California/administrative/chapter12wsickleave?fn=templates\\$fn=default.htm\\$3.0\\$vid=amlegal:sanfrancisco_ca](http://www.amlegal.com/nxt/gateway.dll/California/administrative/chapter12wsickleave?fn=templates$fn=default.htm$3.0$vid=amlegal:sanfrancisco_ca). Accessed April 10, 2013.
- City and County of San Francisco. San Francisco health care security ordinance. 2007. Available at: [http://www.amlegal.com/nxt/gateway.dll/California/administrative/chapter14sanfranciscohealthcaresecurity?fn=templates\\$fn=default.htm\\$3.0\\$vid=amlegal:sanfrancisco_ca](http://www.amlegal.com/nxt/gateway.dll/California/administrative/chapter14sanfranciscohealthcaresecurity?fn=templates$fn=default.htm$3.0$vid=amlegal:sanfrancisco_ca). Accessed April 10, 2013.
- Connecticut Department of Labor. Connecticut general statute 31-57r through 31-57w—paid sick leave. Hartford; 2011.
- Earned Sick Time Act, Int 0097—2010, Version A. New York, NY: New York City Council; 2013.
- Title 9—Protected Sick Leave Code. Portland, OR; City of Portland, Oregon; 2013.
- SMC 14.16, Seattle Sick and Safe Leave Ordinance, No. 123698. Seattle, WA: Seattle City Council, City of Seattle Legislative Department; 2011.
- Council of the District of Columbia. Accrued Sick and Safe Leave Act of 2008. Washington, DC: West Group Publisher; 2008.
- Adams S. Paid sick day laws gather momentum. *Forbes*. September 15, 2011.
- San Francisco Paid Sick Leave Ordinance*. San Francisco, CA: San Francisco Office of Labor Standards Enforcement; 2007.
- Lindemann Gilliam A, Ben-Ishai L. Implementing earned sick days laws. Available at: <http://www.clasp.org/admin/site/publications/files/SF-Implementation-Brief-FINAL.pdf>. Accessed March 11, 2013.
- Boots S, Martinson K, Danziger A. *Employers' Perspectives on San Francisco's Paid Sick Leave Policy*. Washington, DC: Urban Institute; 2009.
- DeBare I. S.F. sick leave law celebrates 1 year. *San Francisco Chronicle*. February 6, 2008.
- Colla CH, Dow WH, Dube A. How do employers react to a pay-or-play mandate? Early evidence from San Francisco. *Forum Health Econ Policy*. 2011;14(2).
- Colla CH, Dow WH, Dube A. San Francisco's "pay or play" employer mandate expanded private coverage by local firms and a public care program. *Health Aff (Millwood)*. 2013;32(1):69-77.
- Colla CH, Dow WH, Dube A. The labor market impact of employer health benefit mandates: evidence

from San Francisco's Health Care Security Ordinance. 2011. Available at: <http://www.nber.org/papers/w17198>. Accessed April 10, 2013.

40. Dube A, Naidu S, Reich M. The economic effects of a citywide minimum wage. *Ind Labor Relat Rev*. 2007;60(4):522–543.

41. Aaronson D, French E. Product market evidence on the employment effects of the minimum wage. *J Labor Econ*. 2007;25(1):167–200.

42. National Partnership for Women and Families. Paid sick days campaigns. Available at: http://www.nationalpartnership.org/site/PageServer?pagename=psd_campaigns. Accessed April 10, 2013.

43. Hartmann H. The Healthy Families Act: Impacts on Workers, Businesses, the Economy, and Public Health. Testimony before the US Senate Committee on Health, Education, Labor, and Pensions. February 17, 2007.

44. Reiss J, Rankin N, Pietrangelo K. Sick in the city: what the lack of paid leave means for working New Yorkers. 2009. Available at: http://www.abetterbalance.org/web/images/stories/Documents/sickdays/reports/Sick_in_the_City_report.pdf. Accessed April 10, 2013.

45. Smith TW. Paid sick days: a basic labor standard for the 21st century. 2008. Available at: <http://publicwelfare.org/AboutUs/documents/PollReportFINALa.pdf>. Accessed April 10, 2013.

46. California Center for Research on Women and Families. Three in four voters favor law to guarantee paid sick days to all workers in California. 2008. Available at: <http://www.ccrwf.org/pdf/FieldResearchCorpPollonPSD-CCRWF.pdf>. Accessed April 10, 2013.

47. Lovell V. *Some Small and Medium-Size Establishments Join Large Ones in Offering Paid Sick Days*. Washington, DC: Institute for Women's Policy Research; 2008.